

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/008047

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L51/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/030320 A1 (BUDD RUSSELL ALAN ET AL) 18 October 2001 (2001-10-18) the whole document figure 2 ----- -/- -----	1,2, 4-11, 15-17, 19,21, 27,28, 31,32,35

Further documents are listed in the continuation of box C

Patent family members are listed in annex

* Special categories of cited documents

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Z document member of the same patent family

Date of the actual completion of the international search

5 January 2005

Date of mailing of the international search report

17/01/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MÖLLER S ET AL: "Improved light out-coupling in organic light emitting diodes employing ordered microlens arrays" JOURNAL OF APPLIED PHYSICS, AMERICAN INSTITUTE OF PHYSICS, NEW YORK, US, vol. 91, no. 5, 1 March 2002 (2002-03-01), pages 3324-3327, XP012055958 ISSN: 0021-8979 the whole document figure 1	1-4, 8-15, 25, 31, 33
Y	US 5 550 676 A (CHIBA ISSEI ET AL) 27 August 1996 (1996-08-27) column 5, line 10 - column 11, line 25; figures 2-6	1-36
Y	US 2001/050736 A1 (WON JONG-HO ET AL) 13 December 2001 (2001-12-13) the whole document figure 3	1-36
Y	US 2003/127973 A1 (WEAVER MICHAEL STUART ET AL) 10 July 2003 (2003-07-10) the whole document figure 4	1-36
Y	MEERHOLZ K ET AL: "OUTSMARTING WAVEGUIDE LOSSES IN THIN-FILM LIGHT-EMITTING DIODES" ADVANCED FUNCTIONAL MATERIALS, WILEY INTERSCIENCES, WIENHEIM, DE, vol. 11, no. 4, August 2001 (2001-08), pages 251-253, XP001072700 ISSN: 1616-301X the whole document figure 1	1-36
Y	US 2002/185968 A1 (OHKUBO KAZUNOBU) 12 December 2002 (2002-12-12) the whole document figure 6	1-36
Y	US 2002/122642 A1 (KIJIMA YASUNORI) 5 September 2002 (2002-09-05) the whole document figures 3, 5-7	1-36

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No	
PCT/EP2004/008047	

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2001030320	A1	18-10-2001	NONE			
US 5550676	A	27-08-1996	DE DE EP KR CA WO JP	69115678 D1 69115678 T2 0500960 A1 141088 B1 2068422 A1 9204648 A1 2710465 B2		01-02-1996 18-07-1996 02-09-1992 17-08-1998 13-03-1992 19-03-1992 10-02-1998
US 2001050736	A1	13-12-2001	CN JP	1327166 A 2002006317 A		19-12-2001 09-01-2002
US 2003127973	A1	10-07-2003	WO	03061028 A2		24-07-2003
US 2002185968	A1	12-12-2002	JP	2002367769 A		20-12-2002
US 2002122642	A1	05-09-2002	JP	2000260559 A		22-09-2000